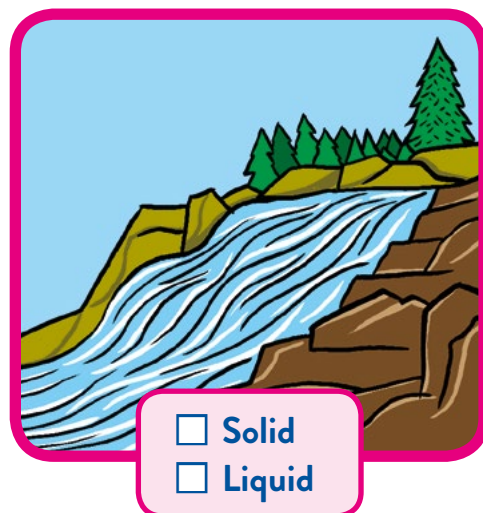
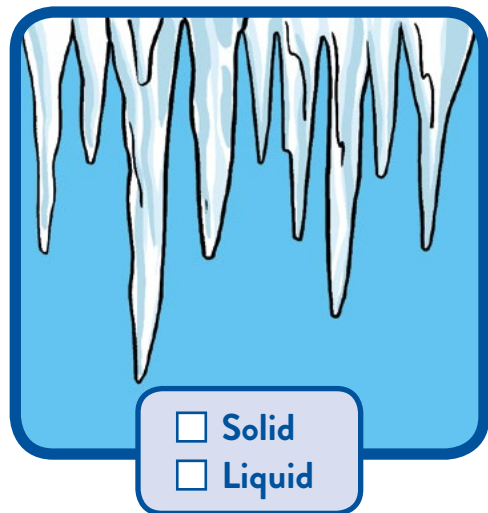
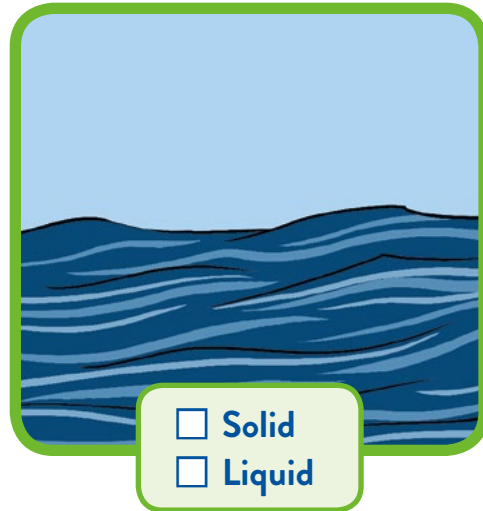
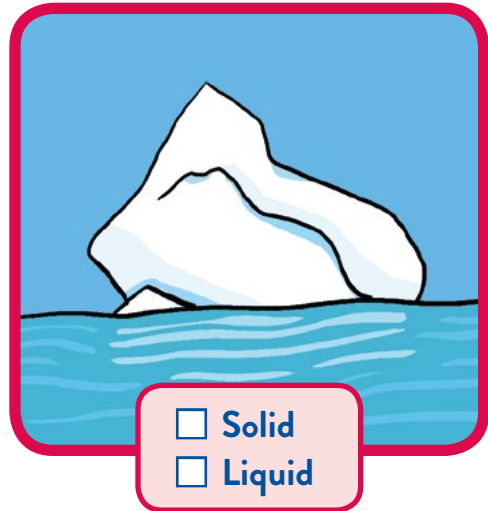


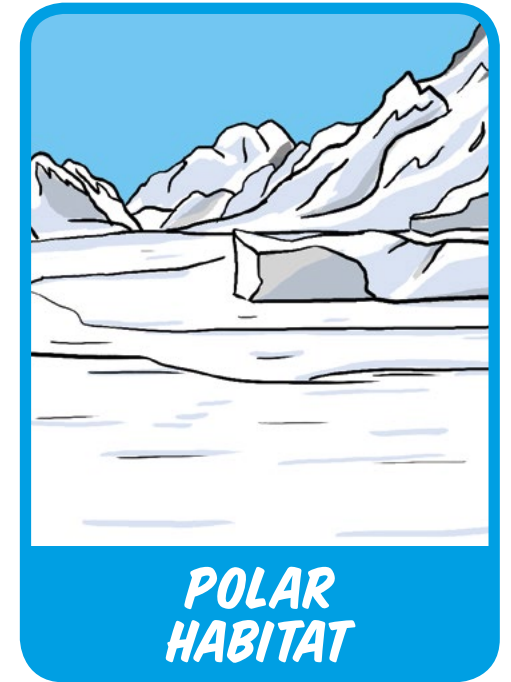
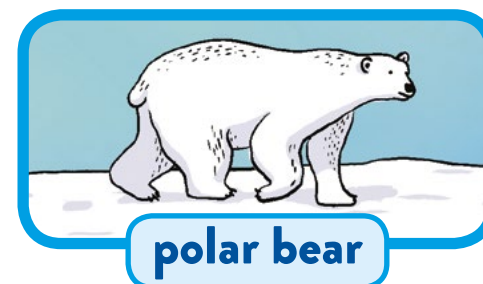
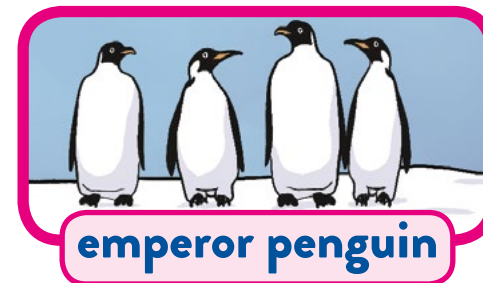
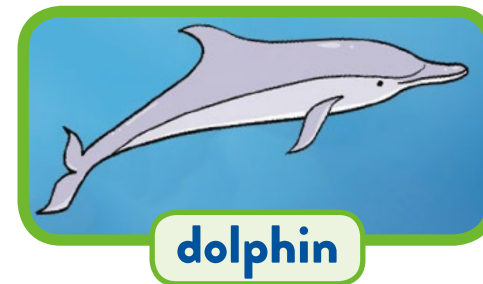
Water Cycle

Over 70% of Earth's surface is covered in water. Water is the only thing that can naturally be found on Earth as a solid, a liquid, and a gas.

Write a next to the correct form of water.

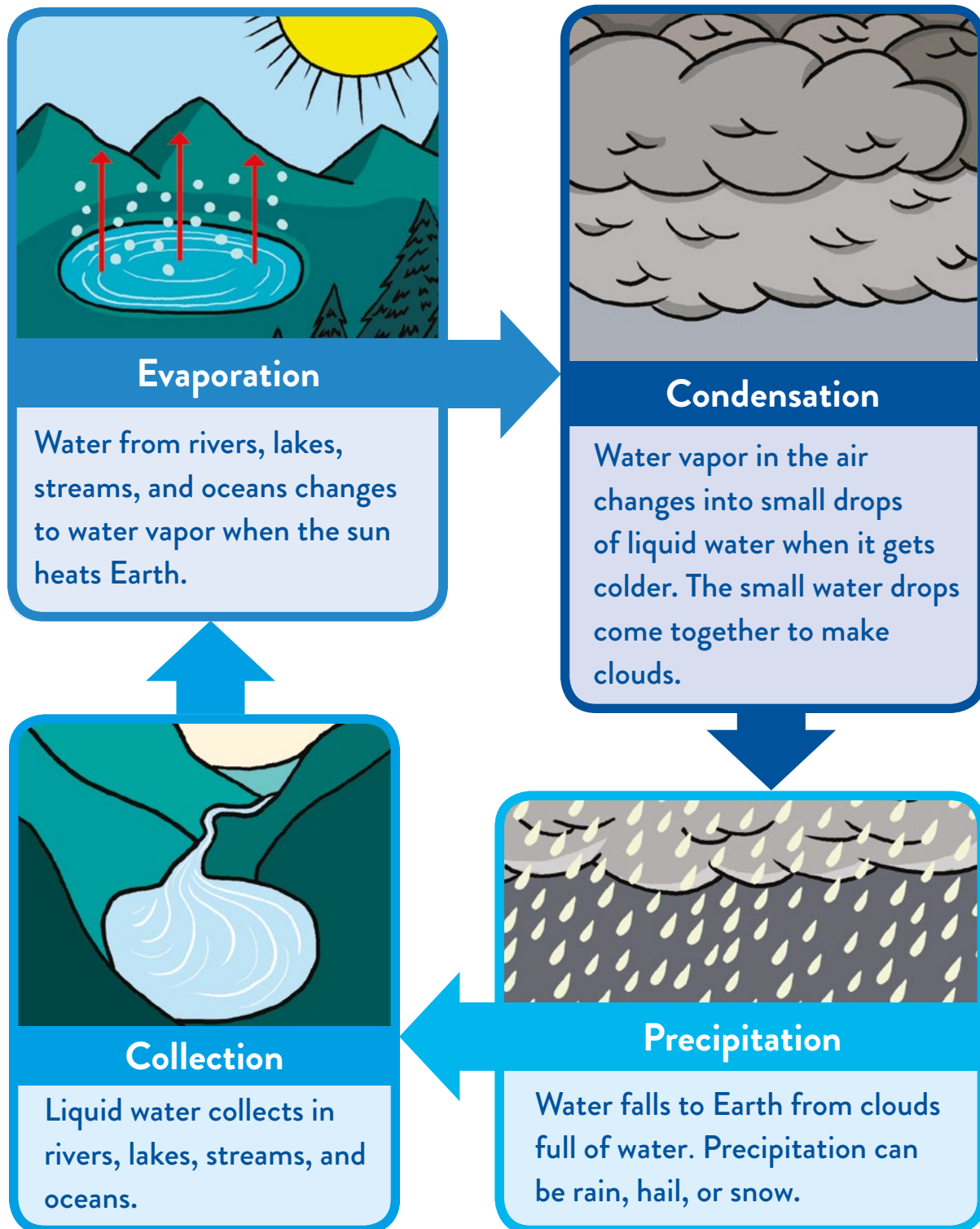


Animals live in the water—both solid and liquid—all over Earth. Draw a line to connect each animal to its water habitat.



The water cycle describes the way water moves to and from the land, sky, and ocean. Water that starts on the land becomes a gas in the sky, and then becomes a solid or liquid that falls back to Earth. The water cycle repeats over and over again.

Look at the water cycle, and read the descriptions aloud. Then answer each question.



When you breathe on a cold day and you can see your breath.



Is this water vapor a **liquid** or a **gas**?

When clouds become heavy with water and raindrops fall to Earth.



Are these drops **precipitation** or **evaporation**?

When you leave a bucket of water outside for a few days and you find less water in the bucket.



Is the water **evaporating** or **precipitating**?

When you add ice to a glass of water and water drops form on the outside as it cools.



Are these drops **condensation** or **evaporation**?

Which parts of the water cycle have you seen for yourself?

All forms of water can be seen in the weather as it falls to Earth. Research and record your weather for a week.



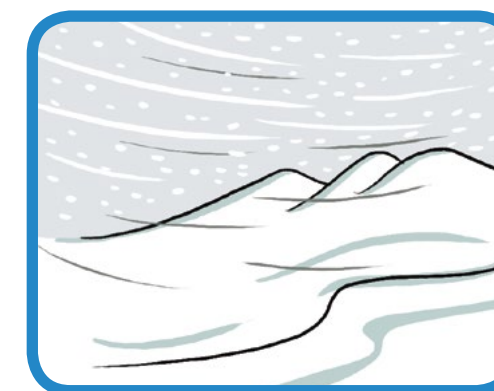
	Draw the weather outside your home.	Is there any precipitation?	Is it a solid, liquid, or gas?
Sunday		<input type="checkbox"/> Yes	_____
		<input type="checkbox"/> No	
Monday		<input type="checkbox"/> Yes	_____
		<input type="checkbox"/> No	
Tuesday		<input type="checkbox"/> Yes	_____
		<input type="checkbox"/> No	
Wednesday		<input type="checkbox"/> Yes	_____
		<input type="checkbox"/> No	
Thursday		<input type="checkbox"/> Yes	_____
		<input type="checkbox"/> No	
Friday		<input type="checkbox"/> Yes	_____
		<input type="checkbox"/> No	
Saturday		<input type="checkbox"/> Yes	_____
		<input type="checkbox"/> No	

Severe weather events often have precipitation. Read each definition. Then draw a line to the matching picture.

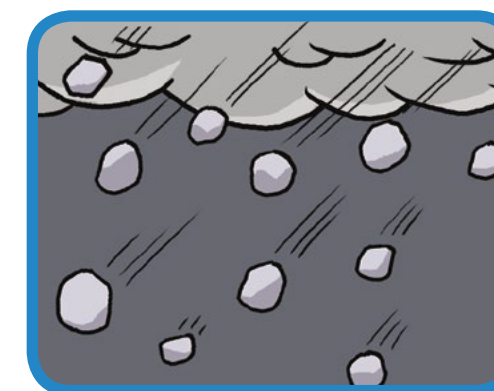
In a **hailstorm**, balls and lumps of ice, called hail, fall like rain.



In a **thunderstorm**, heavy rain falls. There is thunder, lightning, and sometimes wind or hail.



A **hurricane** is a storm that forms over the ocean. Fast-spinning winds pick up water, move at over 74 miles per hour, and make heavy rain.

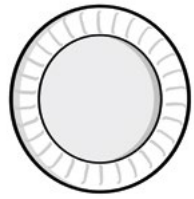


A **blizzard** is a cold-weather storm with strong winds. Snow is blown so quickly that seeing is difficult.



LET'S START!

GATHER THESE TOOLS AND MATERIALS.



Paper plate



Permanent markers



2 or more plastic sandwich bags



Water



Tape



Water bottle



Ice cubes



Aluminum foil

LET'S TINKER!

Place some of your materials in the bowl of water. Watch what happens when they get wet.

- How do they change?
- Do any of them stay the same?
- How do they move in the water?
- What else do you notice?

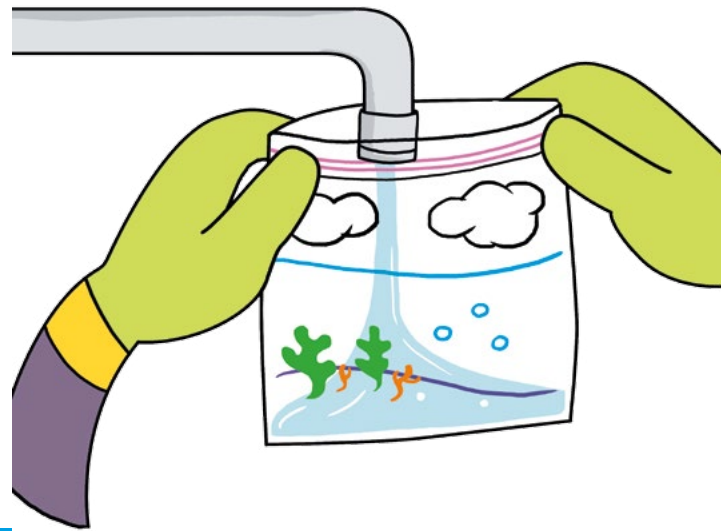


LET'S MAKE: YOUR OWN WATER CYCLE

1. Using a permanent marker, **draw** an ocean at the bottom of a plastic bag and clouds at the top.



2. **Fill** your bag with about 1 inch of water and seal the top tightly.



3. **Tape** the bag to a window with lots of sunlight.



4. **Watch** the water inside your bag "cycle" over several days! Can you tell when the water evaporates, condenses, and precipitates?

LET'S ENGINEER!

Dimitri wants to put ice cubes in his water bottle, but the ice cubes he has won't fit through the neck of the bottle.

How can he freeze more water so the cubes fit into the bottle?

Design a new ice cube shape that can fit into the bottle. What shapes can solve the problem?

Make a mold with your foil, pour in water, and put it in your freezer. After a few hours, remove your new ice cube. Does it fit into a water bottle?



PROJECT 5: DONE!
Get your sticker!